

REMARKS

Claims 1-13 are pending. No new matter has been added by way of the present amendment. For instance, Applicants have amended the specification and claims in order to reference "parts by weight" rather than "wt%," where appropriate. This amendment has been made in order to correct an inadvertent typographical error. In particular, the specification and claims referenced wt%, when the correct reference in many areas should be "parts by weight." Review of the specification as a whole reveals that wt% is incorrect with respect to the components, for instance, of claim 6, since the components of the composition do not add up to 100%. Substitution of the "parts by weight" designation is correct and would be obvious to those of skill in the art. Moreover, this is supported by Embodiments 1 and 2 at pages 14-15 of the present specification. In particular, a review of these Embodiments reveals that the "parts by weight" designation would be understood by those of skill in the art. Applicants have also amended the Title to be more descriptive. Moreover, claim 10 has been amended to be properly dependent upon claim 6. New claim 11 has been added to reflect slightly parts by weight of solvent (17.5 parts by weight) and dispersion/defoaming agent (0.3 parts by weight) compared to claim 6. Embodiment 1 at page 14 and Embodiment 2 shown in Table 1 at page 15 support these different amounts. Embodiments 1 and 2 support new claims 12 and 13. Additionally, the listings of BYK-346 in Tables 1 and 2 at pages 15 and 16 have been corrected to recite a "surface controller" rather than a dispersion agent. Support may be found in the description of BYK-346 in Embodiment 1. Accordingly, no new matter has been added.

In view of the following remarks, Applicants respectfully request that the Examiner withdraw all rejections and allow the currently pending claims.

Objection to the Title of the Invention

The Examiner has objected to the Title of the Invention asserting that it is not clearly indicative of the invention to what the claims are directed. Applicants traverse and submit that the Title of the Invention has been amended to be more reflective of the claims under examination. Thus, this objection is moot. Reconsideration and withdrawal thereof are respectfully requested.

Objection to Claim 6

The Examiner has objected to claim 6 pointing out that it claims a composition comprising more than 100 wt%. Applicants traverse and submit that this inconsistency has been corrected by replacing "wt%" with "parts by weight." Accordingly, this objection is moot. Reconsideration and withdrawal thereof are respectfully requested.

Issues under 35 U.S.C. §102(b)

The Examiner has rejected claims 6-8 and 10 under 35 U.S.C. §102(b) as being anticipated by Wang et al., EP 0893813 (hereinafter referred to Wang '813). Applicants respectfully traverse this rejection.

Independent claim 6 of the present invention relates to a composition for manufacturing barrier ribs for a Plasma Display Panel (PDP) comprising: (a) 100 parts by weight of mixture of glass powder and ceramic powder of which a volume ratio is in the range of 50:50 to 95:5; (b) 20 to 40 parts by weight of solvent; (c) 2 to 12 parts by weight of binder including water soluble

components and solvent soluble components together; (d) 3 to 18 parts by weight of plasticizer; and (e) 0.5 to 2 parts by weight of dispersion agent and/or defoaming agent.

However, a careful review of the disclosure of Wang '813 reveals that there exists no disclosure of a composition meeting the requirements of the present limitations. In order to perform a side-by-side comparison of the composition according to Wang '813 and the present claims, conversion of units is required. For instance, the generic disclosure of Wang '813 is provided in volume% in the examples of Wang '813 are provided in weight%. In contrast, the present claims set forth relative amounts in parts by weight. Accordingly, in the following Tables, Applicants have reproduced the exemplary compositions of Wang '813, which are in weight% and converted these embodiments into parts by weight. This allows for a more clear side-by-side comparison between the present invention and the disclosure of Wang '813.

In the following Table, Applicants have reproduced the components from Table 1 of Wang '813. The first conversion is for the "slip for upper layer (black)" shown at page 11, lines 9-24 of Wang '813.

| Slip for upper layer (black) | Ex.1 | Ex.2 | Ex.3 |
|---|--------------------------|------|------|
| component | wt % (weight percentage) | | |
| Glass 1 | 5 | 6 | 7 |
| Glass 2 | 22 | 21 | 20 |
| Alumina | 10 | 10 | 10 |
| Ethyl acetate/methyl ethyl ketone mixed solvent | 35.5 | 35.5 | 35.5 |
| Acrylate and methacrylate | 6.5 | 6.5 | 6.5 |
| phthalate type plasticizers | 10 | 10 | 10 |
| Refractory (black) pigment | 9.5 | 9.5 | 9.5 |
| Inorganic oxidizing agent | 1.5 | 1.5 | 1.5 |
| total | 100 | 100 | 100 |

wt %

→ parts by weight(based on the 100 parts by weight of mixture comprising Glass and Alumina)



| Slip for upper layer (black) | Ex.1 | Ex.2 | Ex.3 |
|---|-----------------|-------|-------|
| component | Parts by weight | | |
| Glass 1 | 100 | 100 | 100 |
| Glass 2 | | | |
| Alumina | | | |
| Ethyl acetate/methyl ethyl ketone mixed solvent | 95.9 | 95.9 | 95.9 |
| Acrylate and methacrylate | 17.6 | 17.6 | 17.6 |
| phthalate type plasticizers | 27.0 | 27.0 | 27.0 |
| Refractory (black) pigment | 25.7 | 25.7 | 25.7 |
| Inorganic oxidizing agent | 4.1 | 4.1 | 4.1 |
| total | 270.3 | 270.3 | 270.3 |

The following Table shows a conversion for the “slip for lower layer (white)” of Wang ‘813 at page 11, lines 25-40.

| Slip for lower layer (white) | Ex. 1 | Ex. 2 | Ex. 3 |
|---|--------------------------|-------|-------|
| component | wt % (weight percentage) | | |
| Glass 1 | 4.7 | 5.7 | 6.7 |
| Glass 2 | 25.0 | 24.0 | 23.0 |
| Alumina | 21.8 | 21.8 | 21.8 |
| Ethyl acetate/methyl ethyl ketone mixed solvent | 30.5 | 30.5 | 30.5 |
| Acrylate and methacrylate | 6.5 | 6.5 | 6.5 |
| phthalate type plasticizers | 10.0 | 10.0 | 10.0 |
| Inorganic oxidizing agent | 1.5 | 1.5 | 1.5 |
| total | 100.0 | 100.0 | 100.0 |

wt %

→ parts by weight(based on the 100 parts by weight of mixture comprising Glass and Alumina)



| Slip for lower layer (white) | Ex. 1 | Ex. 2 | Ex. 3 |
|---|-----------------|-------|-------|
| component | Parts by weight | | |
| Glass 1 | 100.0 | 100.0 | 100.0 |
| Glass 2 | | | |
| Alumina | | | |
| Ethyl acetate/methyl ethyl ketone mixed solvent | 59.2 | 59.2 | 59.2 |
| Acrylate and methacrylate | 12.6 | 12.6 | 12.6 |
| phthalate type plasticizers | 19.4 | 19.4 | 19.4 |
| Inorganic oxidizing agent | 2.9 | 2.9 | 2.9 |
| total | 194.2 | 194.2 | 194.2 |

A review of the above reveals that the values for weight% are very different from the values for parts by weight. In the following Table, Applicants have provided a side-by-side comparison illustrating components of the present invention and components of Wang '813.

| Subject invention | | Elements of the cited invention considered by the examiner |
|--|-----------------|--|
| component | Parts by weight | |
| Mixture of glass powder and ceramic powder | 100 | Glass and Alumina |
| Solvent | 20 to 40 | Ethyl acetate/methyl ethyl ketone mixed solvent |
| Binder | 2 to 12 | Acrylate and methacrylate |
| Plasticizer | 3 to 18 | Phthalate type plasticizers |
| total | 125 to 170 | |

Based upon the above, it is evident that the component amounts required by the present claims are distinct from the amounts disclosed by Wang '813. Thus, there is no anticipation. In order to more clearly illustrate this lack of anticipation Applicants provide the following side-by-side comparison Table.

| Slip for upper layer (black) in the cited invention | Ex.1 Ex.2 Ex.3 | The subject invention | |
|---|-----------------|--|-----------------|
| component | Parts by weight | component | Parts by weight |
| Glass 1 | 100 | Mixture of glass powder and ceramic powder | 100 |
| Glass 2 | | | |
| Alumina | | | |
| Ethyl acetate/methyl ethyl ketone mixed solvent | 95.9 | Solvent | 20 to 40 |
| Acrylate and methacrylate | 17.6 | Binder | 2 to 12 |
| phthalate type plasticizers | 27.0 | Plasticizer | 3 to 18 |
| Refractory (black) pigment | 25.7 | | |
| Inorganic oxidizing agent | 4.1 | | |
| total | 270.3 | total | 125 to 170 |

| Slip for lower layer (white) in the cited invention | Ex.1 Ex.2 Ex.3 | The subject invention | |
|---|-----------------|--|-----------------|
| component | Parts by weight | component | Parts by weight |
| Glass 1 | 100 | Mixture of glass powder and ceramic powder | 100 |
| Glass 2 | | | |
| Alumina | | | |
| Ethyl acetate/methyl ethyl ketone mixed solvent | 59.2 | Solvent | 20 to 40 |
| Acrylate and methacrylate | 12.6 | Binder | 2 to 12 |
| phthalate type plasticizers | 19.4 | Plasticizer | 3 to 18 |
| Inorganic oxidizing agent | 2.9 | | |
| total | 194.2 | total | 125 to 170 |

It is immediately apparent that Wang '813 fails to suggest or disclose the correct parts by weight of the solvent, binder, and plasticizer according to the present invention. For these reasons alone, there exists no anticipation.

Additionally, further distinctions exist between the present invention and Wang '813. For instance, Wang '813 does not suggest or disclose the present requirement for the mixing ratio between the glass powder and the ceramic powder being in the range between 50:50 and 95:5 (volume ratio).

For all of the above reasons, Applicants respectfully submit that there exists no anticipation based upon Wang '813. Accordingly, the Examiner is respectfully requested to withdraw this rejection.

In view of the above, Applicants respectfully submit that the present claims define allowable subject matter. Accordingly, the Examiner is respectfully requested to withdraw all rejections and allow the currently pending claims.


If the Examiner has any questions or comments, please contact Craig A. McRobbie, Registration No 42,874 at the offices of Birch, Stewart, Kolasch & Birch, LLP.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

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Respectfully submitted,

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By  A42-874

Esther H. Chong
Registration No.: 40,953
BIRCH, STEWART, KOLASCH & BIRCH, LLP
8110 Gatehouse Road
Suite 100 East
P.O. Box 747
Falls Church, Virginia 22040-0747
(703) 205-8000
Attorney for Applicant